



Environmental Services (Engineering)

Goals

To coordinate various engineering services for the City. These services include design and construction of land development and capital improvement projects, construction inspections, infrastructure improvements, traffic studies, flood plain administration, and long-range infrastructure planning. Environmental Services (Engineering) ensures that all applicable federal, state, and local regulatory requirements associated with the delivery of these services are adhered to.

Objectives

Continue to evaluate the condition of all of the public roads in the City and schedule for milling and resurfacing of the roads as funds permit.

Continue the computerized mapping of all private sewer-pumping stations throughout the City.

Continue to clean the drainage system as needed for all projects older than 15 years.

Continue doing all necessary inspections and applications for the National Pollutant Discharge Elimination System (NPDES) permit for the City.

Major Functions and Activities

Environmental Services (Engineering) deals with construction activities of residential, commercial, industrial, and other subdivisions in the City for the design and construction of water and sewer infrastructure, roads, parking lots, grading and drainage systems, waterways, blasting, walkways, street lighting, traffic control devices, landscaping, and other related activities.

All design and construction plans for regulated engineering projects are submitted to the Division by developers or builders seeking plan approval and permitting. Once such plans are approved, construction permits are processed.

Inspection, documentation, and approval for all construction activities of all water, sewer, paving, and drainage systems, and landscaping throughout the City to ensure that the work done is executed in compliance with approved plans and code requirements.

Responsible for the design, bidding process, construction supervision, and payments for all municipal projects funded by the City including water

and sewer infrastructure, roads, drainage systems, sidewalks, and landscaping.

Investigation and resolution of concerns received from residents related to utilities, drainage problems, sidewalks, roads and traffic engineering, and landscaping, etc.

Issuance of Flood Insurance Elevation Certifications. Provide related information to the public and insurance companies.

Act as a liaison with other governmental engineering and regulatory agencies.

Produce and maintain various mapping and plan systems including Computer-Aided Drafting Design (CADD) maps, as-built drawings, utility atlas and field drawings, and general engineering plans associated with various elements of the City infrastructure.

Provide for the field location of the City-owned underground infrastructure per the requirements of the Sunshine One-Call System as mandated by Florida State Statutes.

Provide engineering support services to other divisions and departments within the City.

Budget Highlights

Maintenance activities include the inspection and cleaning of the drainage systems on an as-needed basis.

Continue to generate and update computerized base maps of new projects, the drainage system, and private sewer lift stations to ensure that these important facilities operate at their design parameters. Continue to perform traffic studies as requested by residents and by the Police Department.

Conduct inspections of private developments for compliance with signage and marking requirements of the traffic enforcement agreements that the City has signed with these developments.

Inspections of all construction projects to ensure that they meet the sedimentation and erosion control requirements of the NPDES permit for the City.

2010-11 Accomplishments

Completed plans and permits, and oversaw the milling and resurfacing of the following roads:

- Johnson Street – Palm Avenue to University Drive
- Taft Street – Flamingo Road to Hiatus Road.

Continued to repair city sidewalks, constructed new sidewalks and provided pedestrian ramps at various locations throughout the City.



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Continued to inspect commercial parking lots.
Completed plans and permits for the milling and resurfacing of the following roads:

- NW 77 Way – Johnson Street to NW 13 Street
- NW 10 Street – NW 77 Way to NW 76 Terrace
- NW 11 Street – NW 78 Avenue to NW 76 Terrace
- NW 11 Court – NW 77 Way to NW 76 Terrace
- NW 12 Street – NW 77 Way to NW 76 Terrace.

The construction and inspections for the milling and resurfacing of the roads above will be completed between October and December of 2011.

Environmental Services (Engineering) Performance Measures

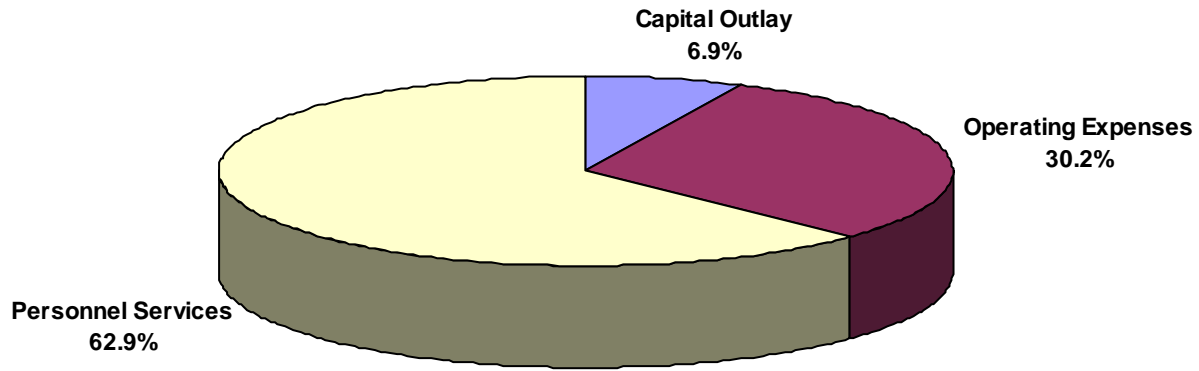
Indicator	2008-09		2009-10		2010-11	2011-12
	Actual	Goal	Actual	Goal	Goal	Goal
Outputs						
Permits issued	101	200	112	100~	100~	100~
Linear feet of traffic guardrail installed	0	300	100	200~	0~	0~
Linear feet of sidewalk replaced	5,250	6,000	15,962	6,000	5,000	7,000
Linear feet of curbing installed +	0	1,000 ^	0	1,000	0~	0~
Inspections conducted	2,952	7,000	2,000	3,000~	3,000~	2,500~
Utility location tickets processed	4,950	7,000	3,610	5,000~	5,000~	4,500~
Effectiveness						
% of projects designed, bid, and constructed on time and on budget	100%	100%	100%	100%	100%	100%
% completion of the computerized base map for the drainage system in the eastern portion of the City	70%	80%	70%	70%	75%	70%
Efficiency						
Inspections conducted per Engineer Inspector	1,240	1,200	1,200	1,200	1,200	1,200

+ Output reflects new curbing installed, which is not needed as much as replacement of damaged sidewalks.

^ Based on one to two large jobs per year.

~ The reduced fiscal year 2009-10, 2010-11, and 2011-12 Output Goals reflect a combination of limited activity in new construction and budgetary constraints.

Environmental Services (Engineering) - Budget Summary



Expenditure Category	2008-09 Actual	2009-10 Actual	2010-11 Budget	2011-12 Budget
Personnel Services				
Salary	387,296	350,584	198,248	166,376
Benefits	200,324	195,974	137,917	106,652
Personnel Services Subtotal	587,620	546,558	336,165	273,028
Operating Expenses				
Other Contractual Services	4,547	20,361	80,539	90,470
Communication and Freight Services	352	372	1,000	750
Rentals and Leases	124	107	200	500
Repair and Maintenance Services	22,575	17,158	22,097	22,350
Office Supplies	1,969	2,191	3,500	2,500
Operating Supplies	12,425	12,000	14,540	14,447
Publications and Memberships	250	127	10	128
Operating Expenses Subtotal	42,242	52,315	121,886	131,145
Capital Outlay				
Machinery and Equipment	-	-	-	30,000
Capital Outlay Subtotal	-	-	-	30,000
Total	629,862	598,873	458,051	434,173

Environmental Services (Engineering) - Personnel Summary

Position Title		2008-09 Actual	2009-10 Actual	2010-11 Budget	2011-12 Budget
12189 Landscape Technician		1	-	-	-
12500 City Engineer		0.5	0.5	-	-
12667 Chief Engineering Inspector		1	1	1	1
12770 Engineer Inspector		2	1	1	1
12774 Engineer		-	-	0.5	-
Total	Full-time	4.5	2.5	2.5	2
	Part-time	-	-	-	-